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Monterey, California, Naval Postgraduate School

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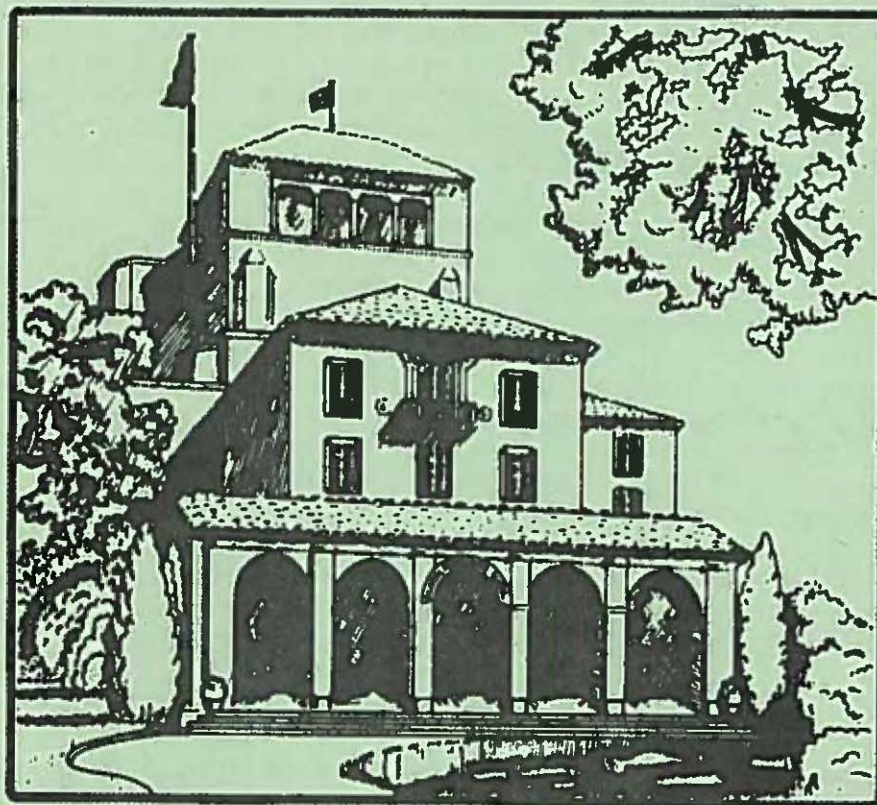
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Naval Postgraduate School

FACULTY BULLETIN

ISSUE NO. 6-78

26 June 1978

DEAN'S LIST

Letters of commendation have been sent to the officer students and civilian students who merited inclusion on the Dean's List for the second quarter of Academic Year 1977-1978. Of the 919 students in the area of consideration, 267 were included on the Dean's List. These exceptional students are to be commended for their excellent academic achievement.

DISTINGUISHED VISITORS

The Naval Postgraduate School was honored by the visit of The Honorable W. Graham Claytor, Secretary of the Navy, and members of his party on 16-17 June 1978. His party included Captain K. S. Masterson, Executive Assistant; Captain R. S. Sims, Special Assistant for Public Affairs; JOC R. T. Montgomery; and Mr. Thomas Bolt, Staff Assistant and Personal Secretary.

The Monterey Peninsula Council of the Navy League welcomed the Secretary at an official Navy League Reception on 16 June, followed by discussions with senior Naval Postgraduate School staff during the dinner which followed.

During the morning of June 17, an overview of the Navy graduate education program and the role and mission of the Naval Postgraduate School were given by a Command Briefing, orientation briefings and research project demonstrations. Officer students met with the Secretary for informal discussions at Ingersoll Hall on the NPS Campus.

The School was pleased by this opportunity to show the excellent educational facilities and demonstrate the significant and important research projects begun much earlier and just now maturing.

JUNE GRADUATION

The guest speaker for summer commencement exercises was The Honorable Leon E. Panetta, 16th District Representative from California. Representing other services were Colonel John D. Hutton, United States Army; Colonel Randall Johnston, United States Air Force; Captain Edward F. Lewis, United States Coast Guard; and Colonel Ray A. Stephens, United States Marine Corps.

Following awards were presented:

Navy League of Monterey Award for Academic Achievement
Presented by Mrs Jane Herbst, National Director, Navy League to:
Lieutenant Commander Cleveland D. Englehardt, USN.

Admiral William Adger Moffett Award
Presented by Dr. S. B. Spangler, Jr., of the American Institute of Aeronautics and Astronautics, to:
Lieutenant Commander Joseph A. Strada, USN.

W. Randolph Church Award
Mewborn Student Research Award
NavSeaSystems Command Award
in Naval Engineering
NavElexSystems Command Award
for Distinguished Academic
Achievement

To: Lieutenant Peter C. Olsen, USCG
To: Lieutenant Commander M. J. Dundics, USN
To: Lieutenant Commander Farhad Rajabi,
Imperial Iranian Navy
To: Lieutenant Bobbie G. Edgington, USN

Presented by Professor G. J. Haltiner, Acting Dean of Science and Engineering.

In addition. Mr. Alfred Gawthrop, Naval Postgraduate School Foundation, presented the Dependent Scholarship Awards. The recipients of the scholarship awards were: Cris Odell, son of Mr. Michael Odell, Aeronautics Department; Andrew Oven, son of Mr. Louis Oven, Dudley Knox Library; Elizabeth Comstock, daughter of Professor Craig Comstock, Mathematics Department; Theresa Lukenas, daughter of Commander Leo Lukenas, Aeronautics Engineering Curricular Programs; Steven Heinz, son of Professor Otto Heinz, Physics and Chemistry Department; and Neil Williams, son of Professor Douglas Williams, Computer Center.

Mr. Alfred Gathrop, on behalf of the Naval Postgraduate School Foundation, presented the Rear Admiral John Jay Schiefflin Award for Excellence in Teaching to Professor Carroll O. Wilde, Chairman, Department of Mathematics.

FACULTY PROFESSIONAL ACTIVITY

Professor Norman Schneidewind of the Administrative Sciences and Computer Science Departments, presented the paper "Emulation: Tool for Software Development" at the National Computer Conference, Anaheim, California, 6 June 1978.

Professor T. Sarpkaya was invited by NATO to present 40 hours of lectures to the representatives of various NATO countries in Paris on Marine Hydrodynamics. The lectures were held during the week of 19-23 June 1978.

Associate Professor Richard Franke, Mathematics Department, attended the Symposium on Recent Advances in Numerical Analysis at Madison, WI, and presented a paper titled "Comparison of Some Local Methods for Interpolation of Scattered Data" at the meeting of the Society for Industrial and Applied Mathematics which followed.

FACULTY PUBLICATIONS

Tupaz, J. B., Williams, R. T. and Chang, C.-P.

A numerical study of the locally unstable barotropic easterly jet. Indian Journal of Meteorology, Hydrology and Geophysics, January-April 1978.

Abstract: The structure and behavior of barotropically unstable disturbances in the vicinity of the upper tropospheric easterly jet during the summer monsoon is studied numerically with a linearized barotropic vorticity equation on an equatorial β -plane. In the unstable region the resultant structure of the waves causes a spatial growth greater than that predicted by the local growth rates deduced from a parallel flow model. In the stable region the structure leads to strong dynamic damping.

Chang, C.-P. and Pentimonti, R.J.

A numerical study of time-mean northern summer monsoon with steady and fluctuating heating. Indian Journal of Meteorology, Hydrology and Geophysics, January-April 1978.

Abstract: A 3-level numerical model is used to examine the hypothesis that the fluctuation of the divergence forcing serves as the primary sink in the planetary-scale vorticity budget of the 200-mb monsoon flow. Two experiments are carried out, one with heating steady in time and the other fluctuating in time with a period of 10 days. The results suggest that 1) damping due to cumulus transport is more likely to account for the vorticity sink than the fluctuating of forcing and 2) the local barotropic instability at upper levels may be more important than that implied by the time-mean wind.

Parker, S. R.

A Two-Dimensional Recursive Digital in Image Processing. Proceedings of the IEEE International Symposium on Circuits and Signal Processing. May 1978, IEEE #78CH1358-ICAS. pp. 308-312.

Abstract: A two-dimensional recursive digital filter is presented in which feedback and feed forward gains are adjusted adaptively to minimize a least square performance function. The filter is shown to be effective in separating three diagonal trajectory streaks from a correlated noise plus a white noise background.

Sarpkaya, T.

The Hydrodynamic Resistance of Roughened Cylinders in Harmonic Flow. Transactions of the Royal Institution of Naval Architects, Vol. 120, 1978, pp. 41-55.

Abstract: The paper presents the results of an extensive investigation of the drag and lift forces acting on roughened cylinders immersed in harmonically oscillating flow.

Schneidewind, N. F.

Emulation: Tool for Software Development. Proceedings of National Computer Conference, AFIPS, June 1978, pp. 367-72.

Abstract: Examines methods for providing a software development organization with a capability for testing and integrating multiple hardware and software systems. Compilation, assembly, translation, simulation and emulation are compared. Prerequisites for using emulation in a software development facility are listed.

Senger, John.

Review of Stuart Oskamp, Attitudes and Opinions, Prentice-Hall, 1977, in The Academy of Management Review, Vol. 3, No. 2, April 1978, pp. 391-393.

FACULTY TRAVEL ORDERS TO 30 JUNE 1978

Reported by Reimbursable and Other Funds

acher, G. E.	25-26May78	San Jose, CA	Jan Jose State Univ.
er, W. W.	31May-4Jun78	Washington, DC	ONR site review; research-
		New London, CT	NUSC.
r, D. R.	1-5Jun78	San Antonio, TX	Oil analysis proj.
achandran, T.	1-4Jun78	San Antonio, TX	Oil analysis proj.
son, H. J.	1-4Jun78	San Antonio, TX	Oil analysis proj.
i, R. H.	1-4Jun78	Pascagoula, MS	NAVSHIPYD-USS OBRIEN.
T. F.	1-4Jun78	Los Angeles, CA	McDonnell Douglas Corp-VLSI.
ards, F. R.	2-4Jun78	San Diego, CA	Research-ACCAT.
man, G. L.	2-3Jun78	San Diego, CA	Torpedo acoustics.
s, A. E.	4-7Jun78	Pascagoula, MS	Post repair trial-USS OBRIEN.
riedewind, N. F.	5-7Jun78	Anaheim, CA	Nat'l Computer Conf.
ette, R. G.	6-8Jun78	Long Beach, CA	Pre-sail conf-Chukchi Sea.
i, P. F.	6-7Jun78	Long Beach, CA	LBNS-Marine Gas Turb Crs.
T. F.	6-9Jun78	Los Angeles, CA	Nat'l Computer Conf.
s, P. C. C.	6-10Jun78	Los Angeles, CA	CAL Tech, General Dynamics,
			Hughes Acft.
ughton, J. W.	7-8Jun78	Berkeley, CA	U of C & U.S. Forest Serv-
			research.
r, C. B.	7-23Jun78	Boston, MA	M.I.T.-consultation; data
		Charleston, SC	collection.
enecraft, J. M.	7-11Jun78	Ft Leavenworth, KS	US Army war gaming & C3.
, M. A.	8-11Jun78	Norfolk, VA	COMSUBLANT-Arctic Prog.
ch, W. H.	8-13Jun78	Oahu, HI	Determine work request pro-
		Barking Sands, HI	posals.
regui, S.	8-10Jun78	San Diego, CA	NOSC & Teledyne-SIGINT.
, S. S.	9-10Jun78	Palo Alto, CA	Accounting Series Lecture.
iams, R. T.	9-15Jun78	Salt Lake City, UT	U of U; Nat'l Ctr for Atmosph
		Boulder, CO	Res; SD School of Mines.
		Rapid City, SD	
i, P. F.	11-16Jun78	Minneapolis, MN	ASME: LBNS-Marine Gas Turb Cr
		Long Beach, CA	
chwind, J. J.	11-18Jun78	Washington, DC	NISC.
fi, R. H.	12-17Jun78	Las Vegas, NV	Nellis AFB-tank targets.
per, D. F.	13-19Jun78	Woods Hole, MA	AMS & ONR panel.
Zman, R. A.	13-17Jun78	San Diego, CA	Research-NPRDC.
nger, L. C.	15-17Jun78	San Diego, CA	Manpwr/Pers Proj-NPRDC.
sak, I. B.	15-18Jun78	Los Angeles, CA	Research-UCLA.
itz, B. M.	15Jun-12Jul78	Washington, DC	S Africa Research Assoc;
		London, UK	research; United Nations; Nor
		Manchester, UK	western U Africana Library.
		Leicester, UK	
		New York, NY	
		Chicago, IL	
ng, C. K.	17-25Jun78	Carmel, CA	Mgmt Development Wkshp.
okaya, T.	17-24Jun78	Paris, FR	Lectures to NATO reps.
g, C. P.	18Jun-3Jul78	Hong Kong	Research: Royal Observ-Hong
		Kuala Lumpur	Kong; Int'l MONEX Mgmt Ctrs-
		New Delhi	Kuala Lumpur & New Delhi; Nat
		Taipei, Taiwan	Taiwan Univ.

iel, D. C.	18-29Jun78	Washington, DC	State Dept Politico-Mili Conf CIA/ONI-research.
orr, J. B.	18-24Jun78	Oxnard, CA	Short crs-NSWSES; research- PMTC.
ers, B. R.	18-24Jun78	Vancouver, Can	ASEE Conf.
ci, P. F.	18-21Jun78	Washington, DC	DOE Source Eval Bd; Marine
		Long Beach, CA	Gas Turb Crs.
, T. F.	18-21Jun78	Los Angeles, CA	NOSC & Actron-Fault Tol Comp
		San Diego, CA	Proj.
lor, J. G.	18-24Jun78	Toronto, Can	8th IFORS Conf.
ker, S. P.	18-25Jun78	Washington, DC	Visit NISC, ONR & NODC.
achandran, T.	19-25Jun78	Pittsburgh, PA	Int'l Symp-Multivar Anal.
is, P. A. W.	19-23Jun78	Pittsburgh, PA	Multivar Symp; ONR.
		Washington, DC	
pple, D. R.	19-29Jun78	Honolulu, HI	Western Economic Mtg.
		Kona, HI	
rus, A. F.	20-23Jun78	Burbank, CA	Lockheed Acft Research.
lihan, T. M.	20-22Jun78	N Hollywood, CA	Hydraulic research-Bendix.
		Valencia, CA	
es, C. R.	20-25Jun78	Honolulu, HI	Western Economic Assoc.
ton, D. M.	20-30Jun78	Lake San Antonio, CA	XR-3 Testcraft Ops.
ch, P. R.	20-26Jun78	Paris, FR	Int'l Conf on Reliability & Maintainability.
ighton, J. W.	21-23Jun78	San Francisco, CA	United Airlines-consultation.
rance, E. J.	21-25Jun78	Wright-Pat AFB, OH	Sec Assist Educ Conf.
pper, D. F.	22-26Jun78	La Jolla, CA	Scripps 75th Anniv Convocatio
larz, O.	25-29Jun78	Boston, MA	Laser prog-AVCO; United Tech
		E Hartford, CT	Res Ctr.
ci, P. F.	25-28Jun89	Long Beach, CA	LBNS-Marine Gas Turb Crs.
s, J. W.	26-27Jun78	Stanford, CA	Foundation res-Arab Elites.
lihan, T. M.	26-27Jun78	Long Beach, CA	LBNS-orientation.
leher, M. D.	26-27Jun78	Long Beach, CA	LBNS-orientation.
ton, D. M.	26Jun-1Jul78	Washington, DC	NAVAIR-Flt Control Symp.
nus, R. H.	26-27Jun78	Stanford, CA	Foundation res-Arab Elites
to, P. J.	26-27Jun78	Long Beach, CA	LBNS-orientation.
a, R. H.	26-27Jun78	Long Beach, CA	LBNS-orientation.
rke, R. H.	27-28Jun78	Long Beach, CA	Load icebreaker for MIZPAC 78
lihan, T. M.	27-28Jun78	Palo Alto, CA	Controls res-SCI; Measurex.
		Cupertino, CA	
oreign, M. G.	27-30Jun78	Washington, DC	NCAR Planning-ONR.
, T. F.	27-30Jun78	Los Angeles, CA	NOSC & Actron-Fault Tol Comp
		San Diego, CA	Proj.
ldson, K. L.	28Jun-1Jul78	San Diego, CA	CEWCOM 78-UCSD; SODAR disc-
		Los Angeles, CA	Aerovironment, Inc.
tzer, M. F.	28Jun-1Jul78	Moffett Fld, CA	Wksp on Thrust Aug Ejectors.
s, A. E.	29Jun-1Jul78	Albuquerque, NM	Research-AFWL, Kirtland AFB.
erlie, E. C.	29Jun-4Jul78	Bay St Louis, MS	ONR; Edo Western Corp.
		Salt Lake City, UT	
son, O. B.	29-30Jun78	China Lake, CA	Research proj.

Supported by O&MN Funds

umberger, R. B.	1-4Jun78	Alameda, CA San Diego, CA	Safety Survey; Navy Helo Ass Conv.
irker, S. R.	1-2Jun78	Berkeley, CA	E/E Dept Seminar.
ose, P. H.	2-3Jun78	Stanford, CA Berkeley, CA	Research-Sanford U & U.C. Berkeley.
irker, P. J.	7-9Jun78	Los Angeles, CA	Soviet Strategy Conf-System Planning Corp; recruiting cc Joseph Douglass.
iss, C. A.	8-11Jun78	Anaheim, CA	Assoc of Asian Studies Conf.
nnedy, J. E.	8-10Jun78	Moffett Fld, CA	Squadron Safety Standown.
nn, R. H.	8-11Jun78	Bethesda, MD	NSRDC, Carderock Lab-tour.
rsting, J. R.	11-12Jun78	Los Angeles, CA	Rand Corp.
rsting, J. R.	17Jun-1Jul78	Toronto, Can Washington, DC San Diego, CA	8th IFORS Conf; DOD & SecNav offices; Naval Installations
rk, D. E.	18-23Jun78	Vancouver, Can	ASEE Conf.
rto, P. J.	18-19Jun78	San Diego, CA	Amer Nuclear Soc Mtg.
hneidewind, N. F.	18-23Jun78	Toronto, Can	IFORS Conf.
zencraft, J. M.	18-22Jun78	Washington, DC	C3 research.
ao, S. S.	20-27Jun78	Honolulu, HI Kona, HI	Western Finance Assoc Mtg.
rker, P. J.	21-23Jun78	Sausalito, CA Livermore, CA	World Affairs Council of N C Livermore Lab.
rker, P. J.	26Jun-1Jul78	Baltimore, MD	Nat'l Strategic Info Ctr- "Quick Fix" Conf.

Cost to the Government

inz, O.	2-3Jun78	Stanford, CA Berkeley, CA	Proj-U of Stanford & U.C. Berkeley.
emgen, J. M.	8-10Jun78	New York, NY	Mgmt Accounting Pract Comm.
own, G. G.	9-10Jun78	Los Angeles, CA	Lg-scale computer-UCLA.
rker, S. R.	13-17Jun78	Chicago, IL	Engnrg Educ Accreditation Bd
ine, M. B.	14-17Jun78	The Hague, Neth Brussels, Bel	NATO
hmidt, L. V.	19-20Jun78	Los Angeles, CA	W Coast Research Corp.
ro, D. R.	22Jun-29Sep78	Taipei, Taiwan Seoul, Korea	Tamkang College; MAAG, Taipe COMUSKOREA.
own, G. G.	22-23Jun78	Los Angeles, CA	Lg-scale computer-UCLA.
u, L. C.	26Jun-5Jul78	Seattle, WA	U of Wash-research.
opens, A. B.	29-30Jun78	China Lake, CA	Technical discussions.

